



* VOL. 9 NO.1 OF JUET CHRONICLE COVERS INFORMATION FROM JULY TO DECEMBER 2018.

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Editorial Board

- Prof. Shishir Kumar - Chairman
- Dr. Rashmi Tyagi
- Dr. Yashwant Modi
- Dr. Kamini Bhasin
- Mr. Shishir Thakur



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CONVOCATION

- The 3rd Convocation has been conducted on November 02, 2018. Prof. S.C. Saxena, Vice Chancellor, Jaypee Institute of Information Technology, Noida was the Guest of Honour. Hon'ble Chancellor's Convocation message was presented by Prof. S.C. Saxena ji. A total of 1618 degrees (Ph.D.- 31, M. Tech. - 44, B. Tech. - 1543) of 2016, 2017 and 2018 passing batches were conferred during the convocation. Three Chancellor's and Fifteen Vice Chancellor's medals were also awarded. The event was preceded by Cultural Evening on November 01, 2018 with Musical Concert performed by Artist, Ms. Smita Damle Mokashi of Indore.

IMPORTANT ACADEMIC EVENTS

- Prof. S.C. Saxena, Vice Chancellor, IIIT Noida visited the campus and participated in the fifteenth meeting of the Board of Management & ninth meeting of Academic Council held on November 01, 2018.
- Er. M. K. Acharya, Chief Engineer (Procurement) MPRDC Bhopal, delivered a lecture on the "Need and importance of soil testing: Civil Engineering perspective", on October 27, 2018
- Shri Yougesh Gupta General Manager (Maintenance) GAIL, Vijaiapur visited the University as a Guest of Honor during the Workshop on 'Geotechnical Investigations for Embankments' on October 27, 2018 and had interactive session with third year and final year students.
- Dr. Carsten Mueller, ITG Numerberg, Germany, visited JUET Campus during August 10-18, 2018 for the conduction of workshop on 'Advancements in Software Engineering'.
- Prof. Akhilesh Pandey, Chairman MPPURC visited the campus and delivered lecture on "Importance of FDPs in the career of teachers" on July 14, 2018.
- Prof. Arun K Pujari, Vice Chancellor of Central University of Rajasthan and Prof. Pratosh Bansal, IET, DAVV Indore visited the campus as a panel member of faculty recruitment process on July 19, 2018.
- Mr. Yougesh Gupta, General Manager, GAIL India Ltd, Vijaypur visited the campus and interacted with III and IV year Civil Engineering students on July 14, 2018.
- Mr. Nitin Shrivastava, CEO & MD, Velocity Software Solutions Pvt. Ltd. delivered a lecture on "Entrepreneur To Be or Not To Be" on July 14, 2018.
- Mrs. Udita Negi Senior Advisory Quality Assurance of Pitney Bowes delivered a presentation on the topic "Testing as a profession" on July 14, 2018.
- Annual Quality Assurance Report (2017-18) prepared and uploaded on website.
- Prof. K.K. Patnaik, ABV-IIITM Gwalior visited the campus to conduct Ph.D. Viva on July 27, 2018.
- Prof. Ram, Dr. Harisingh Gour Vishwavidyalaya Sagar, visited the campus on July 14, 2018.
- Prof. Jitender Chabara, NIT Kurukshetra visited the campus and conducted sessions of FDP during July 10-11, 2018.

INTERACTION BY HONOURABLE VICE CHANCELLOR

- Honorable Vice Chancellor Prof. J. S. P. Rai interacted with all faculty members of university on August 31, 2018 and December 10, 2018 and expressed his views about various aspects for improvement in University with regard to teaching/ learning/ general administration.

ADDRESS BY BRIG. (RETD) S.K.S. NEGI, REGISTRAR AND DEAN (SW)

- All faculty and staff members were addressed on September 28, 2018 on Border Management and National Security.
- All Day Scholars were addressed on August 20, 2018 on safety & security.
- All girl students were addressed on July 31, 2018 on safety & security.
- All 1st year students were addressed on July 12, 2018 during Orientation programme.



Ms. Smita Damle Mokashi and her companions were welcomed on November 01, 2018



Third convocation held on November 02, 2018.



Degree recipients waiting for conferment of their degrees in third convocation.

SPECIAL DAY CELEBRATION

- Under the Startup India initiative of GOI, a specially modified vehicle on Startup India Yatra arrived in JUET Campus on July 24, 2018.

UNIVERSITY ACHIEVEMENT

- Approved as Remote Center of IIT Delhi (Virtual Lab) under NME-ICT Program of Ministry of HRD.
- CISCO Network Academy has been started in JUET Guna from December 2018.

ALUMNI ACHIEVEMENTS

- Rishabh Atray, alumnus of B.Tech.-CSE of 2014-18 batch represented India in Global Financial Forum held at Afghanistan during July 24 to August 01, 2018.
- Mr. Rishabh Sahani alumnus of B.Tech.-ME of 2014-18, batch has been offered Graduate Research Assistantship by University of Manitoba, Canada.
- Yash Khanna alumnus of B.Tech.-ME of 2013-17, batch pursuing Master of Science in Sustainable Energy Systems at Malardalen University, Sweden.
- Mr. Bhuvan Pargal (121730), alumnus of B.Tech.-ME of 2012-16, batch post graduated from University of Texas, USA and currently working as Process Engineer at Samsung, Austin, Texas, USA.
- Mr. Rachit Sharma alumnus of B.Tech.-CE 2012-16 batch has been offered admission to Masters in Transportation Engineering by NIT Trichinappalli.
- Shwetang Sharma alumnus of M.Tech.-SE 2012-14 has been offered admission to Doctoral program by RWTH Aachen University, Germany.
- Mr. Prashant Chaturvedi alumnus of B.Tech.-ME of 2011-15, batch serving as Assistant Commandant in Indian Coast Guard Services and currently posted in Cochin, India.
- Ms. Sonal Goyal alumna of B.Tech.-ME of 2011-15, batch serving as Captain in Indian Army and currently posted in Gangtok, India.
- Mr. Manas Tiwari alumnus of B.Tech.-ME of 2011-15, batch completed post graduation in Industrial Engineering from Texas A & M University and currently working with Tesla Motors, USA.
- Mr. Ankit Sharma alumnus of B.Tech.-ME of 2011-15, batch has qualified for UPSC-Indian Engineering Service (IES)-2018.
- Mr. Divyanshu Shekhar alumnus of B.Tech.-ME of 2011-15, batch has authored a book titled "Too Close Too Far" and is available at Amazon and other online sites.
- Aakash Sharma alumnus of B.Tech.-CE 2009-13 batch has been offered admission to Masters program in Construction planning and Management by Birmingham University, UK.
- Simranjeet alumnus of B.Tech.-CE 2009-13 batch has been offered admission to Post graduate diploma in project management at Fleming College, Ontario, Canada.
- Shekha Saxena (121322) alumna of B.Tech.-CSE of 2012-16 batch has been offered admission in Georgia State University
- Apoorv Saxena (131281) alumnus of B.Tech.-CSE of 2013-17 batch has been offered admission in the University of Texas at Arlington, Texas, USA.
- Shivam Srivastava (141322) alumnus of B.Tech.-CSE of 2014-18, Shreshtha Saxena (131378), alumnus of B.Tech.-CSE of 2013-17, Akshita Purohit (131266) alumnus of B.Tech.-CSE of 2013-17, Prajwal Khanna (131343) alumnus of B.Tech.-CSE of 2013-17, Vasu Raj Jain (131400) alumnus of B.Tech.-CSE of 2013-17 have been offered admission in University of Florida, Florida.

ACHIEVEMENTS (FACULTY WISE)

FACULTY OF ENGINEERING

CHEMICAL ENGINEERING

A: BOS Meeting

- Eighth meeting of the BOS was held on July 17, 2018.

B: Ph.D. Awarded

- Ph.D. degree has been awarded to Mr. Rahul Shrivastava by the University for his thesis entitled, "Fault Detection and Diagnosis in Chemical and Biochemical Processes", under the supervision of Dr. K. N. Gupta in December, 2018.

CIVIL ENGINEERING

A: Publication In Conference Proceedings

- P. Gondal, A. Verma, Y. I. Murthy and U. Mishra, "Experimental Study of Sisal and Jute Fiber Based Biocomposite", International Journal of Interdisciplinary Research and Innovation, Vol. 6, No. 4, pp. 398-404, December 2018.
- A. Verma, Y.S. Shankar, H. Bapna, L.S. Kushwah and K. Mudgal, "Feasibility Studies for Developing Energy Efficient Building in the JUET Campus Using Solar and Biomass Energy," Vol. 13, No. 3, November 2018.
- Y. I. Murthy, S. Gandhi and A. Kumar, "Comparative Study of Pure Mg and AZ91D as Sacrificial Anodes for Reinforced Cement Concrete Structures in Chloride Atmosphere", Civil Engineering Journal, Vol. 4, No. 8, pp. 1750-1759, August 2018.



CE has organized one-day workshop regarding 'Geotechnical Investigations for Embankments' on October 27, 2018.

B: Conference/Seminar/Workshop Participated

- Dr. Sumit Gandhi attended GIAN sponsored course on 'Emerging Concepts in Municipal Wastewater Treatment' conducted by NIT Patna with IIT Kharagpur during December 17-21, 2018.
- Dr. Sumit Gandhi and Dr. N. K. Samaiya attended NPTEL awareness workshop on 'The role of NPTEL Local Chapter' conducted by IIT Kanpur at GITS Udaipur on November 17, 2018.

C: Conference/Seminar/Workshop Organized

- Workshop on 'Geotechnical Investigations for Embankments' was organized on October 27, 2018 at JUET Guna.

D: Patents Filed

Mr. Y. I. Murthy and Dr. Sumit Gandhi filed the following two Indian patents on November 22, 2018 at the IPR office, Mumbai.

- Sacrificial Anodes For Corrosion Mitigation Of RCC Structures Using Mg-Ca-Nd Alloys (Patent application No.201821043949)
- Sacrificial Anodes For Corrosion Mitigation Of RCC Structures Using Mg-Ca-Y Alloys (Patent application No.201821043948)

These new ternary alloys will be useful to control the corrosion rates of reinforcements especially in chloride atmosphere. The alloys have potential application in reinforced concrete structures exposed to sea.

E: BOS Meeting

- Eighth meeting of the BOS was held on July 14, 2018.

F: Student's activities

The Civil Engineering Forum (CEF) organized the following events:

- Defy Roue : October 26-27, 2018
- Orientation of CEF team and tech-charades : September 15, 2018

G: Student's Achievements

- Sameer Prakash (161D048), secured a GRE score of 332/340 on December 26, 2018
- Tanmay Gupta (161D036) and Nikhar Verma (161D018) published a paper titled "State-Of-Art Review of High Calcium Wood Ash as Partial Replacement of Fine Aggregate in Mortar and Concrete" in the Journal of Structural Engineering, its application and Analysis, Vol.1, No.3, October 2018.
- Ph.D. scholar, Ms. Nancy Soni (173D002) is awarded with Indira Gandhi Fellowship of Rs. 7 Lakhs for environmental conservation and management by EPCO, Bhopal, for her Ph. D. work on the "Utilization of manufactured sand obtained from C&D waste in high strength concrete" under the supervision of Dr. D. K. Shukla, July 2018.
- Mr. Sameer Prakash (161D048), B.Tech. III year student has been granted funding of \$ 10000 from Stony Brook University for a project on "self diffusion in single crystalline Gallium nano-wires" in July 2018.
- Mr. Bhomik Kothia (161D053), B.Tech. III year student has won the Pre- UP state level shooting competition in July 2018.
- The Ministry of Human Resource Development, in Association with 'Swachh Bharat Mission (Gramin)' and 'Ministry of Drinking Water and Sanitation' has launched Swachh Bharat Summer Internship Course. In this, a team led by Saharsh Chaubey (151648) is selected as one of the best interns of the University.

G: Faculty Seminar

- Dr. Nitin Kumar Samaiya delivered a seminar on "Infiltration of Wash Material into the Pores of Stream Bed Material", on December 15, 2018.
- Dr. V.S.Babu delivered a seminar on "Highway Alignment and Surveys", on October 3, 2018.

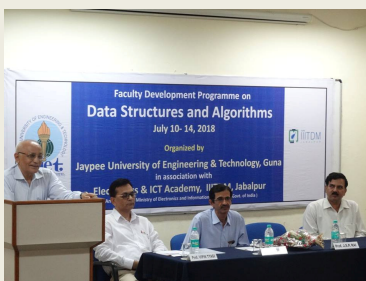
COMPUTER SCIENCE AND ENGINEERING

A: Publication In Journals

- Zubair Khan, Shishir Kumar, Edel B. Garcia Reyes, "Multimodal fusion for pattern recognition" Pattern Recognition Letters, Vol. 115, No. 1, pp 1- 13, November 2018.
- Amit Kumar Srivastava, Shishir Kumar, and M Zareapoor, "Self-organized design of virtual reality simulator for identification and optimization of healthcare software components", Journal of Ambient Intelligence and Humanized Computing, November 2018, DOI: 10.1007/s12652-018-1100-0.
- Amit Kumar Srivastava and Shishir Kumar, "An effective computational technique for taxonomic position of security vulnerability in software development", Journal of Computational Science. DOI: <https://doi.org/10.1016/j.jocs.2017.08.003>.
- Prateek Pandey, Ratnesh Litoriya, Akhilesh Tiwari "A framework for fuzzy modeling in agricultural diagnostics", Journal European des Systemes Automatises, Vol. 51, pp 4-6, 2018.
- Mamta Pandey, Ratnesh Litoriya, Prateek Pandey "Mobile APP development based on agility function", Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp 19-44, 2018.



Dr. Carsten Mueller conducted a workshop regarding "Advancements in Software Engineering (ASE-2018) on August 10-18, 2018.



CSE Department has organized one-week FDP in association with PDMIITM, Gwalior during July 10-14, 2018.

- Mamta Pandey, Ratnesh Litoriya, Prateek Pandey "Analyzing Diverse Issues in Mobile App Development: A Fuzzy DEMATEL Approach", International Journal of Engineering & Technology, Vol. 7, No. 4:36, pp 868-879, 2018.
- Mamta Pandey, Ratnesh Litoriya, Prateek Pandey "An ISM Approach for Modeling the Issues and Factors for Mobile App Development", International Journal of Knowledge Engineering and Software Engineering, Vol. 28, No. 7, pp 937-953, 2018.
- Amit Kumar Srivastava and Shishir Kumar, "Dynamic Reconfiguration of robot software component in real time distributed system using clustering techniques", Procedia Computer Science, Vol. 125, pp. 754-761, 2018.

B: Conference/Seminar/Workshop Participated

- S. Soner, Ratnesh Litoriya, Dharmendra Gupta "Alcohol Sensing Alert with Engine Locking", 3rd International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2018), GSSS Institute of Engineering and Technology for women, Mysuru, Karnataka, December 14-15, 2018.
- Dr. Rahul Pachauri attended Faculty Development Program (FDP) on "Wireless Communication (WICOM-2018)" organized by ABV-IIITM, Gwalior in association with Electronic & ICT Academy, PDPM-IIITDM, Jabalpur during December 3-7, 2018.
- Nileshkumar R. Patel and Shishir Kumar, "Wireless Sensor Network's Challenges and Future Prospects", Proceedings of 7th International Conference on System Modeling and Advancement in Research Trends (SMART-2018), Tirthankar Mahavir University, Moradabad, November 23-24, 2018, pp 67-72.
- All faculty members of CSE and Dr. Diya Jain of Department of Mathematics attended the FDP on "Data Structures & Algorithm" conducted at JUET Guna during 10-14 July, 2018.

C: Conferences/Seminars/Workshops organized

- The Department of CSE and Prof. Vipin Tyagi (HOD faculty of Mathematical Sciences and Mathematics) organized a one-week Faculty Development Program (FDP) on "Data Structure and Algorithms" in association with PDMIITM, Gwalior during July 10-14, 2018.

D: Special Guest/ Examiners / Invited Lectures

- Prof. Shishir Kumar delivered an invited lecture on "Web Engineering Advancements and Trends" 7th International Conference on System Modeling and Advancement in Research Trends (SMART-2018), Tirthankar Mahavir University, Moradabad, November 23-24, 2018.
- Dr. Prateek Pandey delivered an invited lecture on "Machine Intelligence and Applications" in CSIT, Indore under TEQUIP_III on October 24, 2018.

E: Publication of Book Chapter

- Vinay Kumar Jain, Shishir Kumar, "M-Cloud Computing Based Agriculture Management System", Digital Business, Lecture Notes on Data Engineering and Communications Technologies 21, Springer International Publishing AG, Springer Nature, December 2018, pp. 143-153, https://doi.org/10.1007/978-3-319-93940-7_6.

F: Ph.D. Awarded

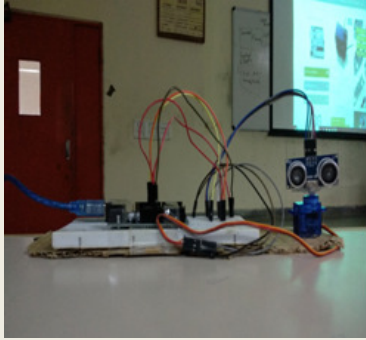
- Ph.D. degree has been awarded to Mr. Neelesh Kumar Jain by the University for his thesis entitled, "Efficient Approaches For Digital Image Forgery Detection", under the supervision of Dr. Vipin Tyagi & Dr. Neeraj Rathore in December, 2018.
- Ph.D. degree has been awarded to Mr. Nileshkumar Rajnikant Patel by the University for his thesis entitled, "Analysis and Design of Energy Efficient Approaches for Wireless Sensor Network", under the supervision of Prof. Shishir Kumar in October, 2018.
- Ph.D. degree has been awarded to Mrs. Shipra Shukla by the University for his thesis entitled, "Mitigating Routing Issues in Border Gateway Protocol for Improving Internet Performance", under the supervision of Dr. Mahesh Kumar in October, 2018.
- Ph.D. degree has been awarded to Mr. Ravindra Kumar Singh by Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal for his thesis entitled "Enhancing Fault Tolerance and Rerouting Strategies in MPLS Networks" under the supervision of Prof. Narendra S. Chaudhari and Prof. Kanak Saxena in September, 2018.
- Ph.D. degree has been awarded to Mr. Varun Kumar Sharma by the University for his thesis entitled, "Performance Enhancement of Network and Transport Layer Protocols in MANETs", under the supervision of Dr. Mahesh Kumar in July, 2018.

G: BOS Meeting

- Eleventh meeting of the BOS was held on July 17, 2018.

H: Student's activities

- The Students branch of Computer Society of India and Mozilla Phoenix Club organized following events:
 - Logo Designing Competition : November 22-25, 2018
 - Multimedia Workshop : November 20-21, 2018
 - Kodeathon 18.9 : November 20, 2018
 - JWOC Project Proposal Date : November 15, 2018
 - Git Infossession : November 11, 2018
 - Introduction to JUET Winter of Codes (IWOC) : November 01, 2018



A working model in “Arduino Programming Classes” held during September 24-29, 2018 by IETE student’s forum.

- Kodeathon -Thanous Strikes : October 07, 2018
- Typolympics : September 26, 2018
- Treasure Hunt : September 22, 2018
- Kodeathon – The First Strike : September 16, 2018
- C Programming Workshop : September 13-15, 2018
- Development Quiz : September 12, 2018
- Orientation Session : August 21, 2018

I: Student’s Achievements

- Ph.D. Scholar Kush Srivastava (173B001) participated in the 8th International Conference on Communication Systems and Network Technologies (CSNT2018) held at RGPV Bhopal during November 24-26, 2018 & presented a paper entitled "The Effectiveness of Parameter Tuning on Ant Colony Optimization for Solving the Travelling Salesman Problem".
- Ph.D. scholars Mayank Shrivastava (183B001), Sameeksha Shrivastava (183B003) and Nivedita Singh (183B005) participated in workshop organized by Electronics & ICT Academy on “Soft Computing and Programming for Science and Engineering Research” during September 15- 20, 2018 at PDPM IITDM Jabalpur.
- Harsh Srivastava, a student of 5th semester CSE branch submitted a Project titled “Kisan Seva Block Chain” and it has been accepted for the presentation in the event “Hackathon 5.0” in Rajasthan Digifest which was organized by Rajasthan Government during 25th to 27th July 2018.
- Kush Srivastava (173B001) participated in two-week National Workshop & Summer School on “Advances in Deep Architectures for Signal, Image & Vision Applications” during July 14- 28, 2018 at IIIT, Allahabad.
- Subhendra Singh Chauhan and Abhishek Chauhan of CSE Department has submitted a project titled “MozGuna” and selected for as Open Leaders by Mozilla community
- Ritwik Shanker (161B180) of CSE Department has been ranked in Top-100 (Division 1, Worldwide) in CodeChef’s September 2018 Mega Cook-Off online coding challenge.

J: Faculty Seminar

- Dr. Ratnesh Litoriya delivered a seminar on “Emerging Trends and Technologies and Applications in Computer Engineering at a Glance”, on December 15, 2018.
- Dr. Rahul Pachauri delivered a seminar on “5G Technology : The Life Ahead”, on September 13, 2018

H: Employee Training Program

- A three-week employee training program was organized by the CSE department during December 10 - 24, 2018 to develop Computer Skills with M.S. Office, Internet Application etc.

ELECTRONICS AND COMMUNICATION ENGINEERING

A: Publication In Journals

- Ranu Gupta, Rahul Pachauri and Ashutosh Singh, "An effective approach of secured medical image transmission using encryption method", Molecular and Cellular Biomechanics, Vol.15, No.02, pp.63-83, November 2018.
- Ranu Gupta, Rahul Pachauri and Ashutosh Singh, "Linear despeckle approach for ultrasound carotid artery images", Journal of Intelligent & Fuzzy System, Vol. 35, pp. 18.7-1816, August 2018
- Durgesh Nandan, Jitendra Kanungo, and Mahajan, A. (2018), “An errorless Gaussian filter for image processing by using expanded operand decomposition logarithm multiplication,” Springer, Journal of ambient intelligence and humanized computing, DOI: <https://doi.org/10.1007/s12652-018-0933-x> 14 July, 2018
- Ankita Sharma, Narendra Sign and Deepak Sharma, “Quantitative analysis and performance augmented compression technique using fractional Fourier transform” Journal in image processing, Vol.5. No.2, pp. 07-17, 2018.

B: Conference/Seminar/Workshop Participated

- Ph.D. scholar, Amit Shivhare presented a research paper entitled “Cascaded gradient sequence for LTE system to reduce peak power,” in International Conference on Advanced Computation and Telecommunication (ICACAT-2018), Bhopal, on December 29, 2018.

C: Ph.D. Awarded

- Ph.D. degree has been awarded to Mr. Durgesh Nandan by the university for his thesis entitled, “Design and Analysis of an Efficient Architecture of Logarithmic Multiplier and its Application”, under the supervision of Dr. Jitendra Kanungo in October, 2018.

D: Student’s activities

- The IETE student’s Forum (ISF) organized following events during the period:
 - Fun Carnival : October 29, 2018
 - Arduino programming classes : September 24-29, 2018
 - Orientation Ceremony (B. Tech first year student) : August 16, 2018

E: BOS Meeting

- Ninth meeting of the BOS was held on July 18, 2018.

F: Faculty Seminar

Dr. R.K. Vishwakarma delivered a seminar on “Introduction of Embedded Systems”, on October 30, 2018.



“Automobile gear box assembling and dissembling” an activity by MES held on November 21, 2018.

MECHANICAL ENGINEERING

A: Publication in Journals

- Shailendra Kumar and Bhagat Singh, “Prediction of tool chatter in turning using RSM and ANN,” *Materials Today: Proceedings*, Vol. 5, No. 11, pp. 23806-23815, December 2018.
- Yogesh Shrivastava, Bhagat Singh and Amit Sharma, “Identification of Chatter in Turning Operation using WD and EMD,” *Materials Today: Proceedings*, Vol. 5, No. 11, pp. 23917-23926, December 2018.
- Mayank Sharma, Anil Kr. Tiwari, Pankaj Dumka, Dhananjay R. Mishra, “Performance evaluation of long still for the utilization of industrial hot waste water”, *Journal of Energy Storage*, Vol. 20, pp 485–91, December 2018.
- Santosh Rathor, Akash Sharma and Yashwant Kumar Modi, “Process capability analysis of Fused deposition modeling process”, *Int J of Advances in Engineering and Technology*, Vol. 11, No. 5, pp. 147-154, November 2018.
- Abhishek Soni, Yashwant Kumar Modi and Sanat Agrawal, “Computed tomography based 3D modeling and analysis of human knee joint”, *Materials Today Proceedings Journal* Vol. 5, No.11, pp. 24194–24201, October 2018.
- Priyanka Joshi, Amit Sharma and Yashwant Kumar Modi, “Optimization of process parameters during laser cutting of Ni-based superalloy thin sheet using response surface methodology”, *Materials Today Proceedings Journal*, Vol. 5, No. 11, pp. 24231-24239, October 2018.
- Kedari Lal Dhaker and Arun Kumar Pandey, “Experimental study of Hole Taper in Laser Trepan Drilling of Nickel Based Super alloy Sheet” *Materials Today: Proceedings*, Vol. 5 , pp. 23994–24004, October 2018.
- Yogesh Shrivastava and Bhagat Singh, “Assessment of stable cutting zone in CNC turning based on empirical mode decomposition and genetic algorithm approach,” *IMEchE - Part C: Journal of Mechanical Engineering Science*, Vol. 232, No. 20, pp. 3573-3594, October 2018.
- Yogesh Shrivastava and Bhagat Singh, “A comparative study of EMD and EEMD approaches for identifying chatter frequency in CNC turning,” *European Journal of Mechanics - A/Solids*, Vol. 73, pp. 381-393, October 2018.
- Pankaj Dumka, Dhananjay R. Mishra, “Experimental investigation of modified single slope solar still integrated with earth (I) & (II):Energy and exergy analysis”, *Energy*, Vol. 160, pp. 1144–57, October 2018.
- Yashwant Kumar Modi and Sidharth Sanadhya , "Design and additive manufacturing of patient-specific cranial and pelvic bone implants from computed tomography data." *Journal of the Brazilian Society of Mechanical Sciences and Engineering* Vol. 40, No. 10, pp. 503: 1-11, September 2018.
- Priyanka Joshi and Amit Sharma, “Optimization Of Process Parameters During Laser Beam Cutting of Ni-based Superalloy Thin Sheet along Curved Profile using Grey-Fuzzy Methodology”, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, Vol. 40, pp. 389-404, September 2018.
- Shailendra Kumar and Bhagat Singh, “Stable Cutting Zone with Improved Metal Removal Rate in Turning Process,” *Iranian Journal of Science and Technology, Transactions of Mechanical Engineering*, doi.org/10.1007/s40997-018-0253-y, August 2018.
- Yashwant Kumar Modi, “Calcium Sulphate based 3D Printed Tooling for Vacuum Forming of Medical Devices: An Experimental Evaluation”, *Materials Technology*, Vol. 33, No. 10, pp. 642-650, July, 2018.
- HV Rai, Yashwant Kumar Modi and Ashay Pare , “Process parameter optimization for tensile strength of 3D printed part using response surface methodology”, *IOP Conf. Series: Materials Science and Engineering*, Vol. 377, 012027 , July 2018.
- Ashay Pare, Yashwant Kumar Modi and HV Rai , “Environmental impact comparison of binder systems for sand moulding process using cradle-to-grave approach”, *IOP Conf. Series: Materials Science and Engineering* Vol. 377 012028 , July 2018.
- Yogesh Shrivastava, Bhagat Singh and Amit Sharma, “Identification of Chatter in Turning Operation using WD and EMD”, *Materials Today Proceedings Journal*, Vol. 5, pp. 23917–23926, July 2018.

B: Publication in Conference Proceedings

- Navneet Khare, Gorang Sharma, Yashwant Kumar Modi, “Finite element analysis of patient-specific femur bone for synthetic biomaterials”, *International Conference on Recent Innovations and Developments in Mechanical Engineering*, NIT Meghalaya, India, November 08 – 10, 2018, Paper No. IC-RIDME18: 37.

C: Conferences/Seminars/Workshops organized

- Department of Mechanical Engineering organized Zonal level competition of 12th “A World in Motion (AWIM)” National Olympics-2018 in collaboration with Mahindra & Mahindra and SAE India. Guna Zone event was organized in the University premises on November 26, 2018 and Kota Zone event at Lawrence and Mayo Public School, Kota on November 27, 2018. Genius Heights Public School, Shivpuri, MP was the winner of Guna Zone and Mittal International School, Kota, Rajasthan was the winner of Kota Zone. Both the winner schools participated in the National Level competition held at Chandigarh on December 23, 2018.



10 Ph.D. degrees have been awarded by the University during July to December, 2018.

Departments	No. of Ph.D Awarded
MATHS	02
CSE	04
CHE	01
ECE	01
MEC	02

D: Ph.D. Awarded:

- Ph.D. degree has been awarded to Mr. Prashant Kumar Shrivastava by the University for his thesis entitled, "An optimal solution of parameters for machining of Inconel -718", under the supervision of Dr. Bhagat Singh, December, 2018.
- Ph.D. degree has been awarded to Mr. Shailendra Kumar by the University for his thesis entitled, "Analysis of tool chatter in turning operation for mass production", under the supervision of Dr. Bhagat Singh in November, 2018.

E: BOS Meeting:

- Tenth meeting of the BOS was held on July 18, 2018.

F: Student's activities

- Automobile Gear Box assembling & Disassembling : November 21, 2018
- Orientation programme of MES : September 25, 2018

G: Faculty Seminar

- Mr. Kedari Lal Dhaker delivered a seminar on "Applications of Laser in Machining operations" on December 15, 2018 at JUET Guna.
- Mr. Pankaj Dumka delivered a seminar on "Purification of water using solar energy" on September 2, 2018 at JUET Guna.

CHEMISTRY

A: Publication In Journals

- Sunil Kumar Srivastava and AL Ramanathan. "Geochemical Assessment of Fluoride Enrichment and Nitrate Contamination in Groundwater in Hard Rock Aquifer by Using Graphical And Statistical Methods" Journal of Earth System Science, Vol. 127, No. 104. pp 01-23, 2018.
- Himani Sharma and Rashmi Tyagi, "Safer Surfactants Based On Amino Acids For Cleaner Environment: A Review, Journal of Biochemistry International, Vol. 5, No. 2, pp. 28-56, 2018.

B: Faculty Seminar

- Dr. Rashmi Tyagi delivered a seminar on "Importance of Esterquats as Fabric Softener Ingredients", on September 24, 2018 at JUET Guna.

MATHEMATICS

A: Publication In Journals

- V. Mishra and B.R. Gupta, "Drag Experienced by a Composite Sphere in an Axisymmetric Creeping Flow of Micropolar Fluid", Journal of Applied Fluid Mechanics, Vol. 11, No. 04, pp. 995-1004, 2018.

B: Ph.D. Awarded

- Ph.D. degree has been awarded to Ms. Vandana Mishra by the University for her thesis entitled "Drag on Axially Symmetric Body" under the supervision of Dr. Bali Ram Gupta, Department of Mathematics on December 14, 2018.
- Ph.D. degree has been awarded to Ms. Rajnee Tripathi by the University for her thesis entitled "Homotopy perturbation method using Laplace transform for ODEs & PDEs" under the supervision of Dr. Dilip Kumar Sharma, Department of Mathematics on December 31, 2018.

C: Faculty Seminar

- Dr. Baliram Gupta delivered a seminar on "Orthogonal functions and Generalized Fourier series", on October 4, 2018.

HUMANITIES AND SOCIAL SCIENCES

A: Publication in Journals

- Shekhar Singh and Sandeep Srivastava, "Moderating Effect of Product Type on Online Shopping Behaviour and Purchase Intention: An Indian Perspective", Cogent Arts & Humanities, Vol. 5, No. 1, pp. 1-27, 2018.

B: Conference/Seminar/Workshop Participated

- Dr. Sandeep Srivastava delivered a lecture on the topic, 'Creative teaching and learning strategies' in the FDP on "Pedagogical approaches in STEM" organized by BIET, Jhansi, UP on October 08, 2018.

C: Conferences/Seminars/Workshops organized

- Dr. Kamini Bhasin conducted a four-day staff training workshop regarding "English Grammar, letter/Note drafting & formal correspondence" at JUET, Guna on December 17-18 and 27-28, 2018.

D: BOS Meeting

- The ninth meeting of the BOS was held on October 15, 2018.

D: Faculty Seminar

- Dr. Vikram Singh Chouhan delivered a seminar on "Balanced Scorecard: A Management Tool", on September 27, 2018 at JUET Guna.



A remembrance of the 'Father of Nation' by JUETians on Gandhi Jayanti {2nd October 2018}.



First year students were welcomed on August 11, 2018 in Fresher's party.



On October 27, 2018 students celebrated Halloween Night in JUET Guna.

FACULTY OF MATHEMATICAL SCIENCES

A: Publication In Journals

- Ghanshyam Raghuvanshi and Vipin Tyagi, " Texture Image Retrieval Based on Block Level Directional Local Extrema Patterns Using Tetrolet Transform", Communications in Computer and Information Science, Vol. 905, pp. 449-460, 2018.

B: Conference/Seminar/Workshop Participated

- Prof. Vipin Tyagi delivered a talk through Skype in an International Conference on "Engineering , Technology and Management for Sustainable Development ICETMSD-2018" held at DBGI, Dehradun (UK) on October 27, 2018.

D: Book published

- Prof. Vipin Tyagi published a book entitled, "Understanding Digital Image Processing", Taylor and Francis, 2018. ISBN:978-1138566842,
(<https://in.mathworks.com/academia/books/understanding-digital-imageprocessing-tyagi.html>)

E. Awards/Honours/Recognition

- Prof. Vipin Tyagi received "Excellent Researcher Award" by LIFE WAY TECH INDIA, GECL awards (Global Education and Corporate Leadership Awards 2018) on December 23, 2018.

TRAINING AND PLACEMENT ACTIVITIES

The following 36 companies conducted recruitment drive for JUET students of 2019 batch i.e. Interview Bit, Infoedge, Webengage, Clarisight, Clappia, Fyle, Trident, www.stay, Posist, Pixel Mind IT solutions, Wipro, Kuliza, TCS Digital hiring, Gemalto, Insider.in(wasteland entertainment pvt.ltd.) Notesgen, Skylark Drones pvt. Ltd. INFOSYS- Hack with Infy, Abyeti, Khidki, Nineleaps, Newgen, EY, Rethink UX, Genpack, Real time data service, Infosys, Ericsson, Cognizant, TCS, Spookfish, Yacca Lifesciences pvt. Ltd. ,HMS Infratech pvt. Ltd. and Collabera.

The highlights for placement offers are as follow:

- CSE student Shivam Saxena received highest package of 25 lacs PA by Interview Bit.
- 34 students have so far been offered packages of 6 lacs and above.
- 21 companies have so far offered more than 6 lacs package.
- 222 placement offers have been received by the students till December 2019.

JUET YOUTH CLUB (JYC)

Following activities have been conducted by various wings of JYC:

- Run for Unity and Democracy : November 25, 2018
- Traditional Night : November 17, 2018
- Musical Evening by Smita Mokashi : November 01, 2018
- Halloween : October 27, 2018
- Musical Night : October 13, 2018
- Tambola : October 06, 2018
- Gandhi Jayanti Celebration : October 01-02, 2018
- Boder Management and National Security : September 28, 2018
- Film Charade : September 22, 2018
- Fresher's Party : August 11, 2018

LEARNING RESOURCE CENTRE (LRC)

- More than 5000 on-line magazines and newspapers have been subscribed.
- The following two new on-line e-resources for e-journals and on-line conference proceedings have been added: (1) IET Digital Library and (2) IEEE Computer Science Digital Library.
- LRC has integrated email and SMS configuration for the Issue, Return, and Reservation and Overdue intimation of books.

PROMOTION AND APPOINTMENTS

- Mr. Navaljit Singh Arora & Ms. Poonam Mandre joined the department of CSE as Assistant Professor (G-I) in July 2018.
- Shri Hari Shankar Shukla and Shri Deepak Sharma Joined Accounts Department in July 2018.
- Shri Ramji Tiwari joined as Male Nurse in Medical centre.
- Mr. Rambabu Saini, Mr. Ramesh Prasad Kushwaha and Mr. Baijnath Sakaet joined as Junior Assistant and Mr. Arun Kumar Pathak and Mr. Phulmesh Kumar Baretha joined as Junior Supervisor in Annapurna Mess.

SPECIAL ALLOWANCE II

- Special Allowance II has been added to the salary structure of all the employees of JUET Guna.

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